



Knowledge

- Circles
- The mean

Skills

- Read and interpret line graphs
- Draw line graphs
- Use line graphs to solve problems
- Read and interpret pie charts
- Pie charts with percentages
- Draw pie charts

Vocabulary

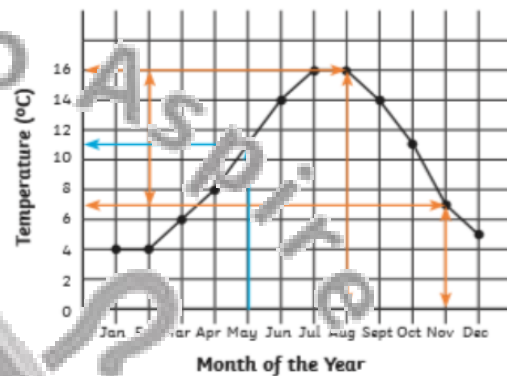
Data, survey, line graph, tally chart, timetable, continuous data, scale, predict, pattern, interpret, label, axis, mean average, pie chart

Read and Interpret Line Graphs

Here is a line graph showing the average temperature each month.

It is important to read all the labels carefully. The y-axis shows the temperature in intervals of 2°C on a scale of 0°C to 16°C.

The x-axis shows the months of the year. The points show the average temperature for each month.



The Average Mean

The mean is the average of a set of data. To find the mean or average, add up all the values to find the total. Divide the total by the number of values that you added together. This will give you the mean.

12, 15, 10, 8, 15

$$12 + 15 + 10 + 8 + 15 = 60$$

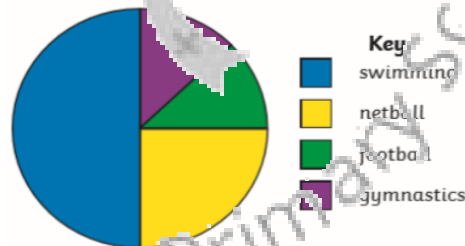
$$60 \div 5 = 12$$

The mean of this data is 12.

Pie Charts

Pie charts represent discrete data. A circle is divided into segments where each segment represents a different category. The size of each segment represents its proportion of the total.

A pie chart to show children's favourite sports



Tables

In order to understand the data presented in a table, you must read the table's title and headings. Remember to always look at the heading that each piece of information falls under.

| Ticket Type | Weekday Price | Weekend Price |
|-------------|---------------|---------------|
| Adult | £6 | £7.50 |
| Child | £4 | £4.50 |
| Student | £5.50 | £6 |

Timetables

Below is a bus timetable. The bus timetable shows the time the bus starts and its location, where it doesn't stop and the time it stops and its location.

| | | Three different buses | | |
|--------------------|--|-----------------------|------|------|
| Bus stop locations | | 0726 | 0803 | 0842 |
| Mill Road | | | | |
| High Street | | | | |
| Pitsmoor Road | | | | |
| Fulwood | | | | |